

VREX-0007USAAON00

CLAIMS

1. (Currently Amended) A method for creating a micropolarizer, comprising:
providing a first plate having a first and a second surface;
providing a second plate having a first and a second surface;
coating a polyimide on each of said first surface of said two plates;
exposing said first plate to linearly polarized UV light;
rubbing said polyimide coated upon said first surface of said first plate along a predetermined direction;
rubbing said polyimide coated upon said first surface of said second plate along a direction perpendicular to said predetermined direction;
aligning said first plate and said second plate having said first surface of said first plate and said first surface of said second plate facing each other thereby creating a space there between so that a Maguin condition exists between said plates; and
filling a liquid crystal between said space whereby a cell, or film is created.
2. (Original) The method of claim 1, further comprising:
using a mask having alternate transparent and opaque stripes coving said cell or film whereby a solidifying energy are being selectively applied there through; and
partially solidifying some portions said liquid crystal.
3. (Original) The method of claim 2, further comprising:
removing said mask; and

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heating said cell or film to a temperature set point, whereby unsolidified liquid crystals covered by said opaque stripes are being transformed into a different phase.

4. (Original) The method of claim 1, further comprising:
re-solidifying uncured nematics into an isotropic phase.
5. (Canceled)
6. (Original) The method of claim 2, wherein:
said solidifying comprises applying an ultraviolet light.
7. (Original) The method of claim 1, wherein:
said space having a substantially equidistance between said first surface of said first plate and said first surface of said second plate.
8. (Original) The method of claim 1, wherein:
said liquid crystal comprises a nematic liquid crystal.
9. (Original) The method of claim 8, wherein:
said nematic liquid crystal comprises a type of polymerizable nematic liquid crystal.
10. (Canceled)

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11. (Canceled)
12. (Original) The method of claim 1, wherein:
said two plates comprising flat glass plates.
13. (Canceled)
14. (Canceled)
15. (Canceled)
16. (Canceled)
17. (Canceled)
18. (Canceled)
19. (Canceled)
20. (Canceled)
21. (Canceled)

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22. (Canceled)

23. (Canceled)

24. (Currently Amended) A method for creating a micropolarizer, comprising:

- providing a first plate having a first and second surface;
- coating a polyimide on said first surface of said first plate;
- exposing said first plate with linearly polarized UV light;
- rubbing said polyimide coated upon said first surface of said first plate along a predetermined direction;
- coating a photo resist on top of said polyimide;
- patterning said photo resist into a predetermined alternatively spaced strips;
- re-rubbing said polyimide coated upon said first surface of said first plate along a direction perpendicular to said predetermined direction so that a Maguin condition exists between said plates; and
- rinsing off said photo resist.

25. (Original) The method of claim 24, further comprising:

- providing a second plate having a first and a second surface;
- coating a polyimide on said first surface of said first plate;
- rubbing said polyimide coated upon said first surface of said first plate along a predetermined direction;

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aligning said first plate and said second plate having said first surface of said first plate and said first surface of said second plate facing each other thereby creating a space there between; and

filling a liquid crystal between said space whereby a cell, or film is created.

26. (Original) The method of claim 24, further comprising:
solidifying said liquid crystal.
27. (Canceled)
28. (Original) The method of claim 26, wherein:
said solidifying comprises applying an ultraviolet light.
29. (Original) The method of claim 24, further comprising:
re-solidifying uncured nematics into an isotropic phase.
30. (Original) The method of claim 29, wherein:
said solidifying comprises applying an ultraviolet light.
31. (Original) The method of claim 25, wherein:
said space having a substantially equidistance between said first surface of said first plate and said first surface of said second plate.

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32. (Original) The method of claim 24, wherein:
said liquid crystal comprising a nematic liquid crystal.
33. (Original) The method of claim 32, wherein:
said nematic liquid crystal comprising a type of polymerizable nematic liquid
crystal.
- 34 (Canceled)
35. (Canceled)
36. (Canceled)
37. (Canceled)
38. (Canceled)
39. (Canceled)
40. (Canceled)
41. (Canceled)

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42. (Canceled)

43. (Canceled)

44. (Canceled)

45. (Canceled)

46. (Canceled)

47. (Canceled)

48. (Canceled)

49. (Canceled)

50. (Canceled)

51. (Canceled)